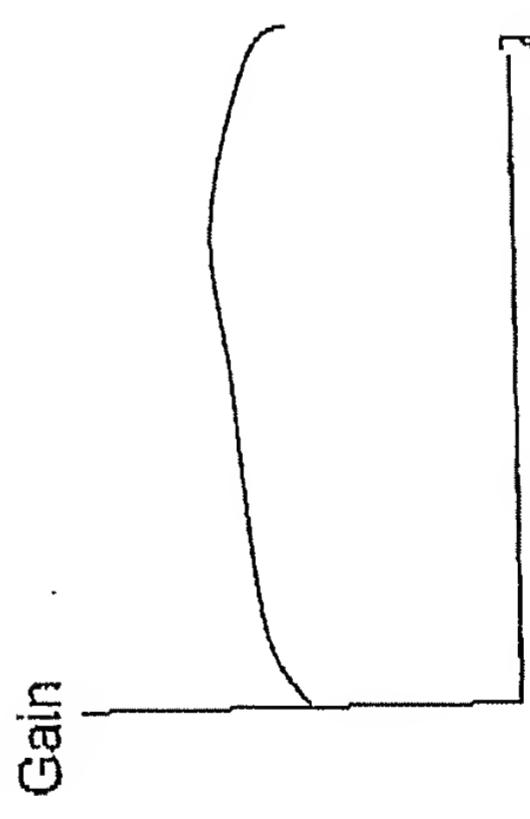
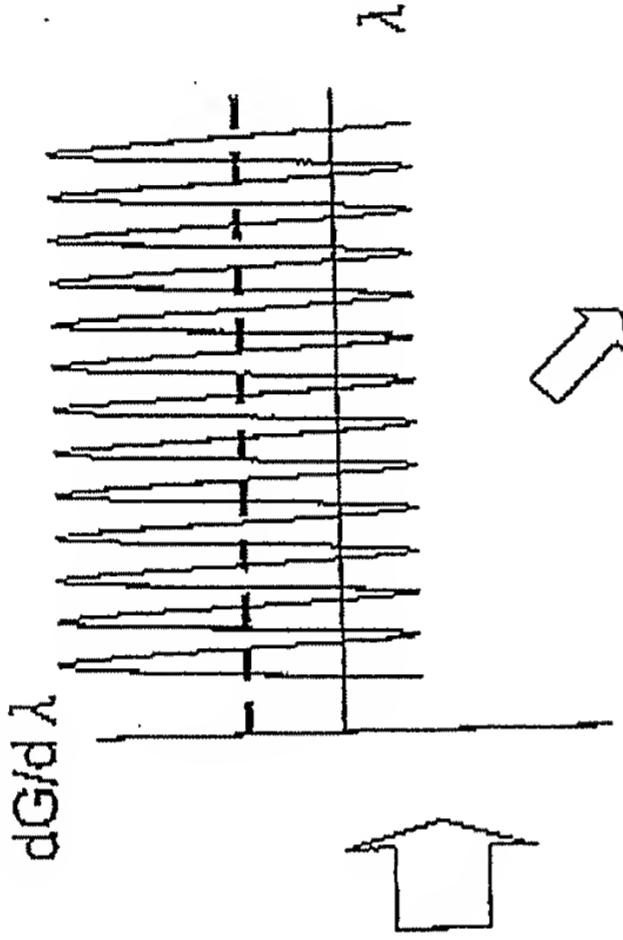
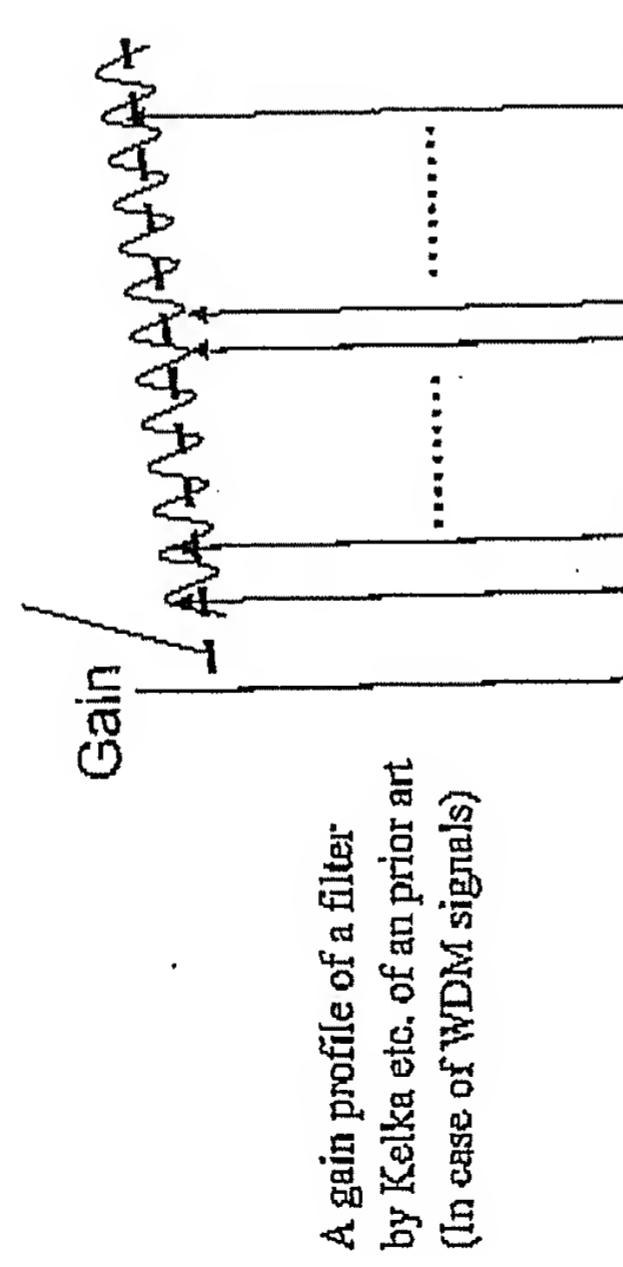


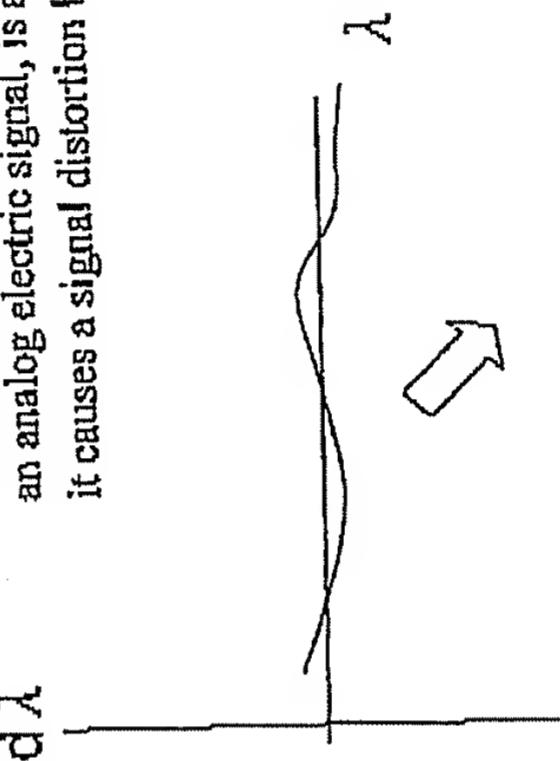
FIGURE A

If signal levels are within a prescribed range, and if a gradient of a gain trend is constant, then it is permissible

A wide trend of a gain slope is controlled within a constant value, but if the gain slope is differentiated the gain slope value at each wavelength becomes big



If a signal being directly modulated with an analog electric signal, is amplified, it causes a signal distortion by a Chirp



As the differentiated value is controlled substantially zero at each wavelength, in case of a signal being directly modulated with an analog electric signal, the signal distortion is well controlled within a wide range of wavelength

A gradient of a gain trend is not necessary flat, but